



基礎雲端運算程式設計

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題目

題目：請參考老師給的第 8 週 Code First Migration 講義(課本第 7 章及第 10 也有講解此主題)，建立一個具備 CRUD：【新增留言】、【刪除留言】、【修改留言】及【顯示所有留言】的留言板網站，並加入輸入關鍵字可以【查詢留言】之功能。

- (1) 利用 ASP.NET MVC 建立網頁。
- (2) 利用 Code First Migration 建立料庫。
- (3) 利用 Scaffolding 技術自動建立具備 CRUD 功能的 Controllers 及 Views。
- (4) 【查詢留言】的功能。
- (5) 最後要將帶有資料庫的專案部署到私有雲(參考老師給的專案雲端部署講義，利用你的學號完成部署。

實作結果

操作畫面

- Query

應用程式名稱 首頁 關於 連絡人 留言

Index

[Create New](#)

Title:

name	comment	date	
AAA	你好	2019/4/28	Edit Details Delete
BBB	午安	2019/4/28	Edit Details Delete
CCC	晚安	2019/4/28	Edit Details Delete

© 2019 - 我的 ASP.NET 應用程式

圖 1

應用程式名稱 首頁 關於 連絡人 留言

SearchIndex

[Create New](#)

Title:

name	comment	date	
BBB	午安	2019/4/28	Edit Details Delete
CCC	晚安	2019/4/28	Edit Details Delete

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圖 2



操作影片

- 有聲音_手機錄影

<https://drive.google.com/open?id=1cPJmJ91gapjJWp1PDzUz6WLqI0fp4aGF>

- 無聲音_電腦錄影

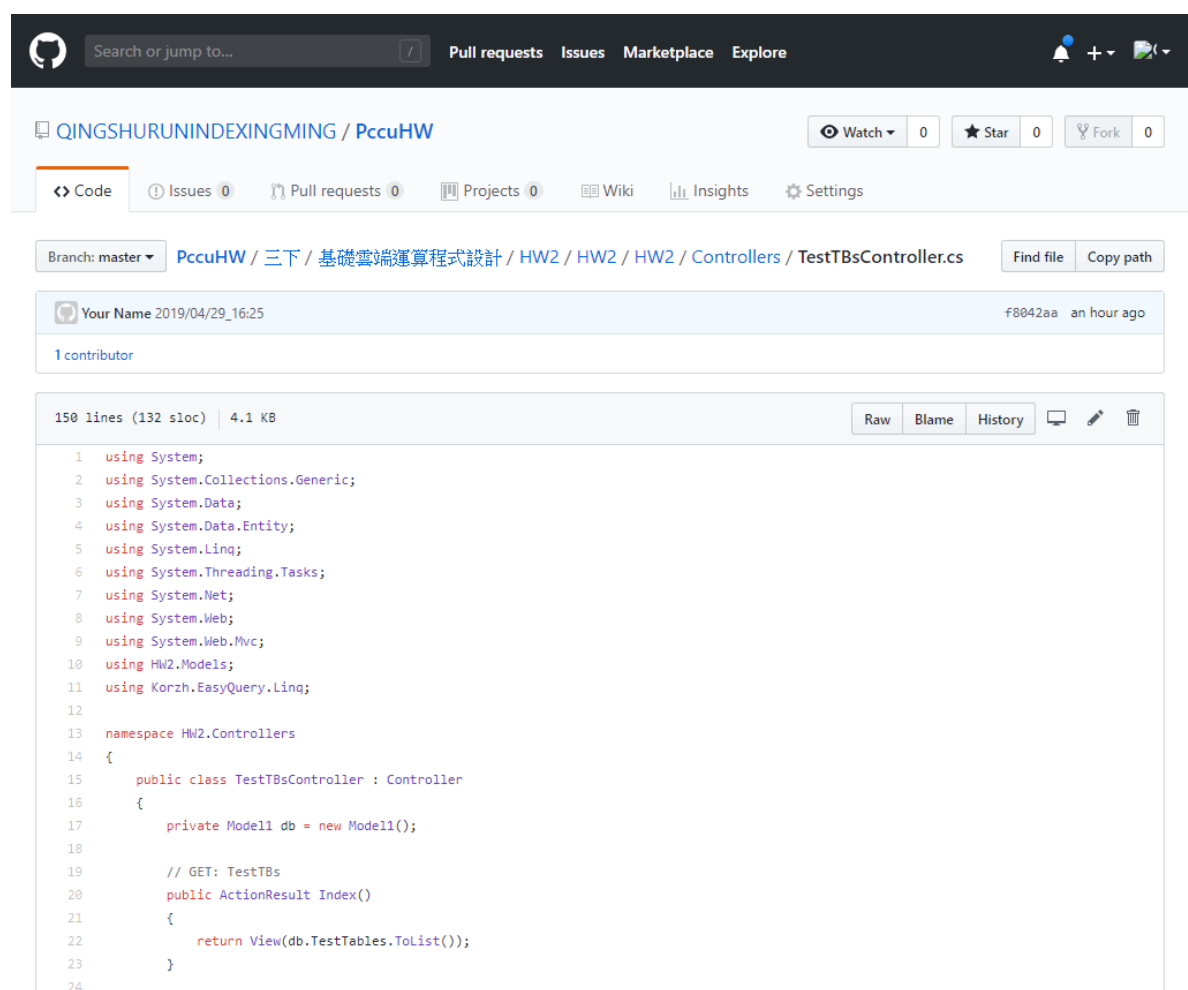
https://drive.google.com/open?id=1zWEZoxzHY0Gjbus1X6Rk3ZU_SjjHlluj



程式碼

Controllers

- TestTBsController.cs



The screenshot displays a GitHub repository for 'QINGSHURUNINDEXINGMING / PccuHW'. The file 'TestTBsController.cs' is selected, showing its code. The code is a C# class for a web controller, using various system and application namespaces. It includes a private field 'db' and a public method 'Index()' that returns a view with a list of test tables.

```
1 using System;
2 using System.Collections.Generic;
3 using System.Data;
4 using System.Data.Entity;
5 using System.Linq;
6 using System.Threading.Tasks;
7 using System.Net;
8 using System.Web;
9 using System.Web.Mvc;
10 using HW2.Models;
11 using Korzh.EasyQuery.Linq;
12
13 namespace HW2.Controllers
14 {
15     public class TestTBsController : Controller
16     {
17         private Model1 db = new Model1();
18
19         // GET: TestTBs
20         public ActionResult Index()
21         {
22             return View(db.TestTables.ToList());
23         }
24     }
25 }
```

圖 3

```

25 // GET: TestTBs/Details/5
26 public ActionResult Details(int? id)
27 {
28     if (id == null)
29     {
30         return new HttpStatusCodeResult(HttpStatusCode.BadRequest);
31     }
32     TestTB testTB = db.TestTables.Find(id);
33     if (testTB == null)
34     {
35         return HttpNotFound();
36     }
37     return View(testTB);
38 }
39
40 // GET: TestTBs/Create
41 public ActionResult Create()
42 {
43     return View();
44 }
45
46 // POST: TestTBs/Create
47 // To protect from overposting attacks, please enable the specific properties you want to bind to, for
48 // more details see https://go.microsoft.com/fwlink/?LinkId=317598.
49 [HttpPost]
50 [ValidateAntiForgeryToken]
51 public ActionResult Create([Bind(Include = "id,name,comment,date")] TestTB testTB)
52 {
53     if (ModelState.IsValid)
54     {
55         db.TestTables.Add(testTB);
56         db.SaveChanges();
57         return RedirectToAction("Index");
58     }
59

```

圖 4

```

60     return View(testTB);
61 }
62
63 // GET: TestTBs/Edit/5
64 public ActionResult Edit(int? id)
65 {
66     if (id == null)
67     {
68         return new HttpStatusCodeResult(HttpStatusCode.BadRequest);
69     }
70     TestTB testTB = db.TestTables.Find(id);
71     if (testTB == null)
72     {
73         return HttpNotFound();
74     }
75     return View(testTB);
76 }
77
78 // POST: TestTBs/Edit/5
79 // To protect from overposting attacks, please enable the specific properties you want to bind to, for
80 // more details see https://go.microsoft.com/fwlink/?LinkId=317598.
81 [HttpPost]
82 [ValidateAntiForgeryToken]
83 public ActionResult Edit([Bind(Include = "id,name,comment,date")] TestTB testTB)
84 {
85     if (ModelState.IsValid)
86     {
87         db.Entry(testTB).State = EntityState.Modified;
88         db.SaveChanges();
89         return RedirectToAction("Index");
90     }
91     return View(testTB);
92 }

```




5

```
93
94 // GET: TestTBs/Delete/5
95 public ActionResult Delete(int? id)
96 {
97     if (id == null)
98     {
99         return new HttpStatusCodeResult(HttpStatusCode.BadRequest);
100     }
101     TestTB testTB = db.TestTables.Find(id);
102     if (testTB == null)
103     {
104         return HttpNotFound();
105     }
106     return View(testTB);
107 }
108
109 // POST: TestTBs/Delete/5
110 [HttpPost, ActionName("Delete")]
111 [ValidateAntiForgeryToken]
112 public ActionResult DeleteConfirmed(int id)
113 {
114     TestTB testTB = db.TestTables.Find(id);
115     db.TestTables.Remove(testTB);
116     db.SaveChanges();
117     return RedirectToAction("Index");
118 }
119
120 protected override void Dispose(bool disposing)
121 {
122     if (disposing)
123     {
124         db.Dispose();
125     }
126     base.Dispose(disposing);
127 }
128
```

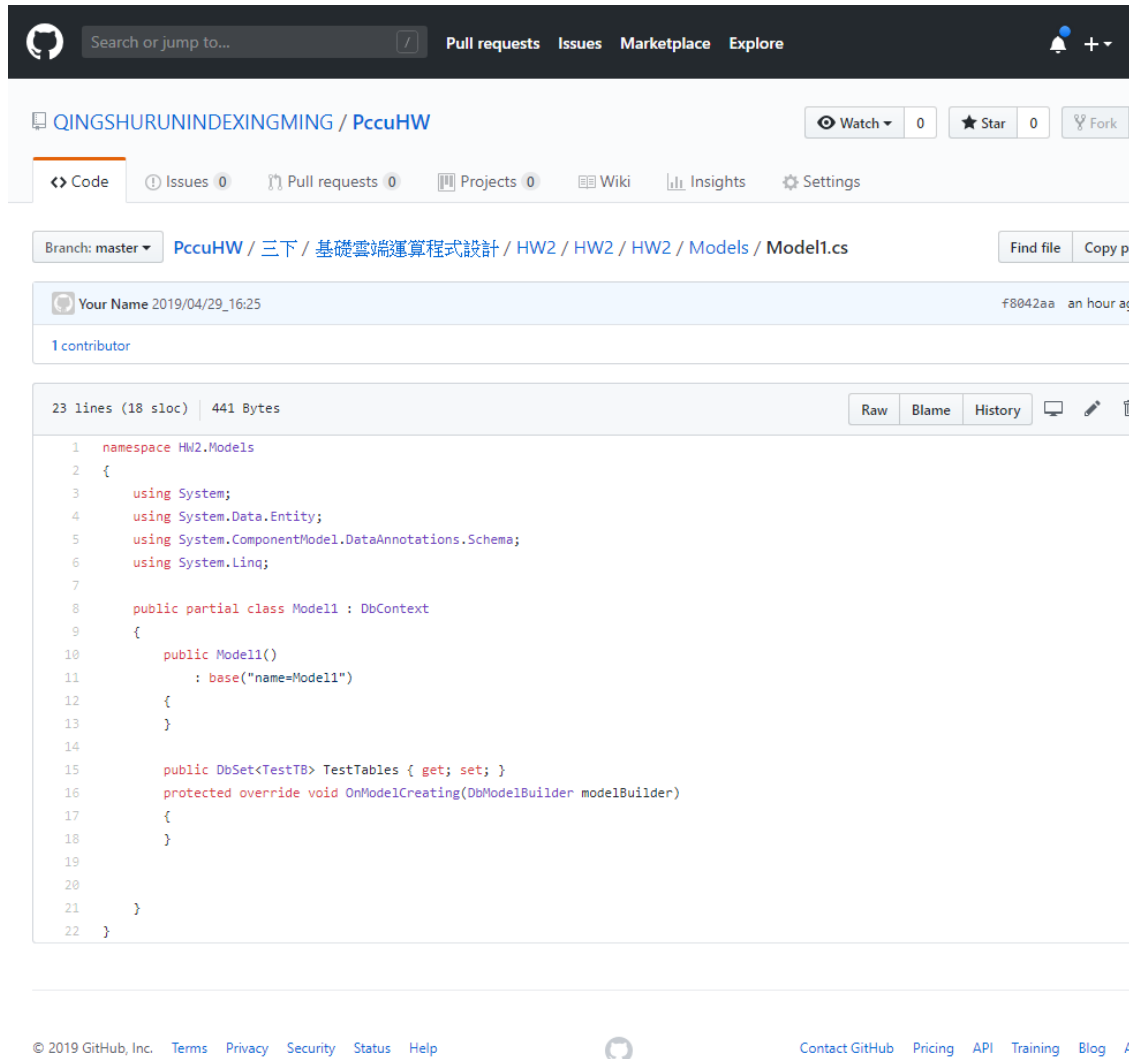
6

```
129     [HttpPost]
130     public string SearchIndex(FormCollection fc, string searchString)
131     {
132         return "<h3> From [HttpPost]SearchIndex: " + searchString + "</h3>";
133     }
134
135
136
137     public ActionResult SearchIndex(string searchString)
138     {
139         var comments = from m in db.TestTables select m;
140
141         if (!String.IsNullOrEmpty(searchString))
142         {
143             comments = comments.Where(s => s.comment.Contains(searchString));
144         }
145
146         return View(comments);
147     }
148 }
149 }
```



Models

- Model1.cs




The screenshot shows a GitHub repository page for 'QINGSHURUNINDEXINGMING / PccuHW'. The repository has 0 Watchers, 0 Stars, and 0 Forks. The 'Code' tab is selected, showing the file 'Model1.cs' in the 'Models' directory. The file is 23 lines long (18 sloc) and 441 Bytes. The code is as follows:




```
1 namespace HW2.Models
2 {
3     using System;
4     using System.Data.Entity;
5     using System.ComponentModel.DataAnnotations.Schema;
6     using System.Linq;
7
8     public partial class Model1 : DbContext
9     {
10         public Model1()
11             : base("name=Model1")
12         {
13         }
14
15         public DbSet<TestTB> TestTables { get; set; }
16         protected override void OnModelCreating(DbModelBuilder modelBuilder)
17         {
18         }
19
20     }
21 }
22 }
```

The footer of the page shows the GitHub logo, the text '© 2019 GitHub, Inc.', and links for Terms, Privacy, Security, Status, Help, Contact GitHub, Pricing, API, Training, and Blog.

● TestTB.cs



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 Your Name 2019/04/29_16:25 f8042aa an hour ago

1 contributor

23 lines (20 sloc) | 472 Bytes

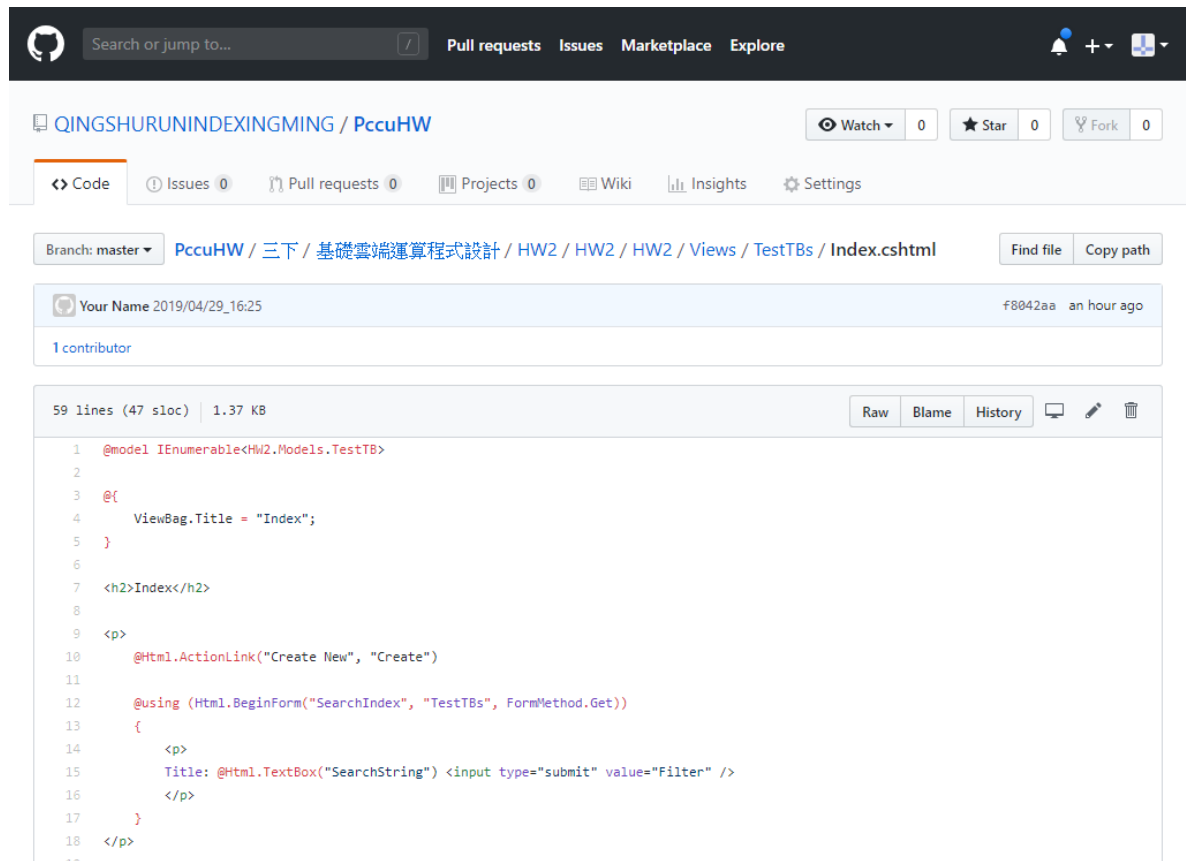
[Raw](#) [Blame](#) [History](#)   

```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Web;
5 using System.ComponentModel.DataAnnotations;
6
7 namespace HW2.Models
8 {
9     public class TestTB
10    {
11        [Key]
12        public int id { get; set; }
13
14        [Required]
15        public string name { get; set; }
16        [Required]
17        public string comment { get; set; }
18        [Required]
19        [DataType(DataType.Date)]
20        public DateTime date { get; set; }
21    }
22 }
23 }
```



Views

● Index.cshtml



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Your Name 2019/04/29_16:25 f8042aa an hour ago

1 contributor

59 lines (47 sloc) | 1.37 KB Raw Blame History

```
1 @model IEnumerable<HW2.Models.TestTB>
2
3 @{
4     ViewBag.Title = "Index";
5 }
6
7 <h2>Index</h2>
8
9 <p>
10     @Html.ActionLink("Create New", "Create")
11
12     @using (Html.BeginForm("SearchIndex", "TestTBs", FormMethod.Get))
13     {
14         <p>
15             Title: @Html.TextBox("SearchString") <input type="submit" value="Filter" />
16         </p>
17     }
18 </p>
```

圖 10

```


19
20
21
22
23 <table class="table">
24   <tr>
25     <th>
26       @Html.DisplayNameFor(model => model.name)
27     </th>
28     <th>
29       @Html.DisplayNameFor(model => model.comment)
30     </th>
31     <th>
32       @Html.DisplayNameFor(model => model.date)
33     </th>
34   </tr>
35
36
37   @foreach (var item in Model)
38   {
39     <tr>
40       <td>
41         @Html.DisplayFor(modelItem => item.name)
42       </td>
43       <td>
44         @Html.DisplayFor(modelItem => item.comment)
45       </td>
46       <td>
47         @Html.DisplayFor(modelItem => item.date)
48       </td>
49       <td>
50         @Html.ActionLink("Edit", "Edit", new { id = item.id }) |
51         @Html.ActionLink("Details", "Details", new { id = item.id }) |
52         @Html.ActionLink("Delete", "Delete", new { id = item.id })
53       </td>
54     </tr>
55   }
56
57 </table>
58

```





- [SearchIndex.cshtml](#)





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 Your Name 2019/04/29_16:25 f8042aa an hour ago

1 contributor

53 lines (47 sloc) 1.24 KB [Raw](#) [Blame](#) [History](#)   

```
1 @model IEnumerable<HW2.Models.TestTB>
2
3
4 @{
5     ViewBag.Title = "SearchIndex";
6 }
7
8 <h2>SearchIndex</h2>
9
10 <p>
11     @Html.ActionLink("Create New", "Create")
12     @using (Html.BeginForm("SearchIndex", "TestTBs", FormMethod.Get))
13     {
14         <p>
15             Title: @Html.TextBox("SearchString") <input type="submit" value="Filter" />
16         </p>
17     }
18 </p>
19 <table>
20     <tr>
21         <th>
22             name
23         </th>
24         <th>
25             comment
26         </th>
27         <th>
28             date
29         </th>
30         <th></th>
31     </tr>
32
33     @foreach (var item in Model)
34     {
35         <tr>
36             <td>
37                 @Html.DisplayFor(modelItem => item.name)
38             </td>
39             <td>
40                 @Html.DisplayFor(modelItem => item.comment)
41             </td>
42             <td>
43                 @Html.DisplayFor(modelItem => item.date)
44             </td>
```



```
45         <td>
46             @Html.ActionLink("Edit", "Edit", new { id = item.id }) |
47             @Html.ActionLink("Details", "Details", new { id = item.id }) |
48             @Html.ActionLink("Delete", "Delete", new { id = item.id })
49         </td>
50     </tr>
51 }
52
53 </table>
```

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學習心得

希望能上手些，手機 APP 還沒做完

